IN THE CLAIMS:

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Please add new claims 75-91 as follows:

- (Original) A polymer composition consisting essentially of branched crystalline
 polypropylene homopolymer prepared in a polymerization process comprising:
 combining two or more different metallocene catalyst compounds; said
 polypropylene homopolymer having a unimodal molecular weight distribution and a
 heat of fusion of 70 J/g or more.
- 2. (Original) The composition of claim 1, in which the heat of fusion of the branched crystalline polypropylene is 80 J/g or more.
- 3. (Original) The composition of claim 1, in which the heat of fusion of the branched crystalline polypropylene is 90 J/g or more.
- 4. (Previously amended) The composition of claim 1, in which the heat of fusion of the branched crystalline polypropylene is 100 J/g or more.
- 5. (Original) The composition of claim 1, in which the Branching Index of the branched crystalline polypropylene is 0.98 or less.
- 6. (Original) The composition of claim 1, in which the Branching Index of the branched crystalline polypropylene is 0.95 or less.
- 7. (Original) The composition of claim 1, in which the Branching Index of the branched crystalline polypropylene is 0.90 or less.
- 8. (Original) The composition of claim 1, in which the Branching Index of the branched crystalline polypropylene is 0.80 or less.
- 9. (Original) The composition of claim 1, in which the two or more metallocene catalyst compounds include a first metallocene compound and a second metallocene compound; the first metallocene compound capable of forming vinyl, vinylene, or vinylidene terminated polypropylene macromer with a weight average molecular weight of less than 150,000 Daltons; and the second metallocene compound is

capable of forming a crystalline polypropylene with a weight average molecular weight of 100,000 Daltons or more; wherein the molar amount of the second metallocene compound is greater than the molar amount of the first metallocene compound.

- 10. (Original) The composition of claim 1, in which one of the metallocene compounds includes an ethylene-bridged bis-indenyl hafnocene or an ethylene-bridged bis-tetrahydroindenyl hafnocene.
- 11. (Original) The composition of claim 1, in which one of the metallocene compounds is rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dichloride or rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dimethyl.
- 12. (Original) A unimodal polymer composition comprising branched crystalline polypropylene, prepared by the process comprising:

combining two or more different metallocene catalyst compounds with propylene monomers in a polymerization medium having less than 30 volume percent diluent;

conducting polymerization of the propylene monomers in the polymerization medium at a reaction temperature of 75°C or less; and

recovering a branched crystalline polypropylene that has (a) from 0.0 wt% to 2.0 wt% ethylene; (b) a heat of fusion of 70 J/g or more; and (c) a unimodal molecular weight distribution.

- 13. (Original) The composition of claim 12, in which the polymerization medium consists essentially of propylene monomers.
- 14. (Original) The composition of claim 12, in which the heat of fusion of the branched crystalline polypropylene is 60 J/g or more.
- 15. (Original) The composition of claim 12, in which the heat of fusion of the branched crystalline polypropylene is 70 J/g or more.

- 16. (Original) The composition of claim 12, in which the heat of fusion of the branched crystalline polypropylene is 90 J/g or more.
- 17. (Original) The composition of claim 12, in which the Branching Index of the branched crystalline polypropylene is 0.98 or less.
- 18. (Original) The composition of claim 12, in which the Branching Index of the branched crystalline polypropylene is 0.95 or less.
- 19. (Original) The composition of claim 12, in which the Branching Index of the branched crystalline polypropylene is 0.90 or less.
- 20. (Original) The composition of claim 12, in which the Branching Index of the branched crystalline polypropylene is 0.80 or less.
- 21. (Original) The composition of claim 12, in which the two or more metallocene catalyst compounds include a first metallocene compound and a second metallocene compound; the first metallocene compound capable of forming a polypropylene macromer with a weight average molecular weight of less than 150,000 Daltons; and the second metallocene compound is capable of forming a crystalline polypropylene with a weight average molecular weight of 100,000 Daltons or more; wherein the molar amount of the second metallocene compound is greater than the molar amount of the first metallocene compound.
- 22. (Original) The composition of claim 12, in which one of the metallocene compounds includes an ethylene-bridged bis-indenyl hafnocene or an ethylene-bridged bis-tetrahydroindenyle hafnocene.
- 23. (Original) The composition of claim 12, in which one of the metallocene compounds is rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dichloride or rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dialkyl.
- 24. (Previously amended) A polymer composition that comprises branched crystalline polypropylene, prepared by the process comprising:

USSN: 10/683,593 5 of 15

conducting polymerization of propylene monomers in the presence of a first metallocene catalyst compound and a second metallocene catalyst compound at a temperature of 75°C or less to provide a composition that comprises branched crystalline polypropylene containing from 0.0 wt% to 2.0 wt% ethylene and having a unimodal molecular weight distribution, wherein:

- (a) the first metallocene catalyst compound is capable of producing vinyl terminated polypropylene macromers; and
- (b) the second metallocene catalyst compound is capable of producing crystalline polypropylene having a weight average molecular weight of 100,000 Daltons or more.
- 25. (Original) The composition of claim 24, in which the polymerization medium consists essentially of propylene monomers.
- 26. (Original) The composition of claim 24, in which the heat of fusion of the branched crystalline polypropylene is 80 J/g or more.
- 27. (Original) The composition of claim 24, in which the heat of fusion of the branched crystalline polypropylene is 90 J/g or more.
- 28. (Original) The composition of claim 24, in which the heat of fusion of the branched crystalline polypropylene is 100 J/g or more.
- 29. (Original) The composition of claim 24, in which the Branching Index of the branched crystalline polypropylene is 0.98 or less.
- 30. (Original) The composition of claim 24, in which the Branching Index of the branched crystalline polypropylene is 0.95 or less.
- 31. (Original) The composition of claim 24, in which the Branching Index of the branched crystalline polypropylene is 0.90 or less.
- 32. (Original) The composition of claim 24, in which the Branching Index of the branched crystalline polypropylene is 0.80 or less.

- 33. (Original) The composition of claim 24, in which one of the metallocene compounds includes an ethylene-bridged bis-indenyl hafnocene or an ethylene-bridged bis-tetrahydroindenyle hafnocene.
- 34. (Original) The composition of claim 24, in which one of the metallocene compounds is rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dichloride or rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dialkyl.
- 35. (Previously amended) A branched crystalline polypropylene composition prepared by the process comprising:

contacting a polymerization mixture that includes propylene monomers with a first metallocene catalyst compound and a second metallocene catalyst compound; and

conducting polymerization of the propylene monomers for a time sufficient to form a branched crystalline polypropylene composition having a unimodal molecular weight distribution and a heat of fusion of 50 J/g or more, wherein:

the first metallocene compound is an alkyl bridged metallocene compound that has at least two indenyl rings or derivatives of indenyl rings, each ring being substituted at the 4 and 7 positions; and

the second metallocene compound is a bridged metallocene compound that has at least two indenyl rings or derivatives of indenyl rings, each ring being substituted at the 2 and 4 positions.

- 36. (Original) The composition of claim 35, in which the polymerization medium consists essentially of propylene monomers.
- 37. (Previously amended) The composition of claim 35, in which the heat of fusion of the branched crystalline polypropylene is 80 J/g or more.
- 38. (Previously amended) The composition of claim 35, in which the heat of fusion of the branched crystalline polypropylene is 90 J/g or more.

- 39. (Previously amended) The composition of claim 35, in which the heat of fusion of the branched crystalline polypropylene is 100 J/g or more.
- 40. (Original) The composition of claim 35, in which the Branching Index of the branched crystalline polypropylene is 0.98 or less.
- 41. (Original) The composition of claim 35, in which the Branching Index of the branched crystalline polypropylene is 0.95 or less.
- 42. (Original) The composition of claim 35, in which the Branching Index of the branched crystalline polypropylene is 0.90 or less.
- 43. (Original) The composition of claim 35, in which the Branching Index of the branched crystalline polypropylene is 0.80 or less.
- 44. (Original) The composition of claim 35, in which one of the metallocene compounds includes an ethylene-bridged bis-indenyl hafnocene or an ethylene-bridged bis-tetrahydroindenyle hafnocene.
- 45. (Original) The composition of claim 35, in which one of the metallocene compounds is rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dichloride or rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dialkyl.
- 46. (Original) A polymer composition comprising branched crystalline polypropylene having a heat of fusion of 70 J/g or more; a Branching Index of 0.98 or less; a unimodal molecular weight distribution; and from 0.0 wt% to 2.0 wt% ethylene.
- 47. (Previously amended) A polymer composition comprising branched crystalline polypropylene having a heat of fusion of 80 J/g or more; a Branching Index of 0.98 or less; a unimodal molecular weight distribution; and from 0.0 wt% to 2.0 wt% ethylene.
- 48. (Original) A polymer composition comprising branched crystalline polypropylene having a heat of fusion of 80 J/g or more; a Branching Index of 0.98 or less wherein said branching is derived solely from polypropylene macromers; and a unimodal molecular weight distribution.

- 49. (Previously amended) A polymer composition comprising branched crystalline polypropylene homopolymer having a heat of fusion of 80 J/g or more; a Branching Index of 0.95 or less wherein said branching is derived solely from polypropylene macromers; and a unimodal molecular weight distribution.
- 50-57. (Cancelled).
- 58. (Original) A foam comprising the composition of claim 1.
- 59. (Original) A blow molded article comprising the composition of claim 1.
- 60. (Original) A thermoformed article comprising the composition of claim 1.
- 61. (Original) A film comprising the composition of claim 1.
- 62. (Original) A fiber comprising the composition of claim 1.
- 63. (Original) A sheet comprising the composition of claim 1.
- 64. (Original) A plaque comprising the composition of claim 1.
- 65. (Original) A hose comprising the composition of claim 1.
- 66. (Original) A belt comprising the composition of claim 1.
- 67. (Original) A tire comprising the composition of claim 1.
- 68. (Original) A tape comprising the composition of claim 1.
- 69. (Original) A nonwoven fabric comprising the composition of claim 1.
- 70. (Original) A wax crystal modifier comprising the composition claim 1.
- 71-74. (Cancelled).
- 75. (New) A polymer composition consisting essentially of branched crystalline polypropylene homopolymer prepared in a polymerization process comprising: combining two or more different metallocene catalyst compounds with

propylene monomer in a polymerization medium having less than 30 volume percent diluent; and

polymerizing the propylene monomers in the polymerization medium at a reaction temperature of 100°C or less and pressure of from 600 kPa to 4,000 kPa to form the polymer composition consisting essentially of branched crystalline polypropylene homopolymer, the branched crystalline polypropylene homopolymer having a unimodal molecular weight distribution and a heat of fusion of 70 J/g or more.

- 76. (New) The composition of claim 75, in which the heat of fusion of the branched crystalline polypropylene is 80 J/g or more.
- 77. (New) The composition of claim 75, in which the heat of fusion of the branched crystalline polypropylene is 90 J/g or more.
- 78. (New) The composition of claim 75, in which the heat of fusion of the branched crystalline polypropylene is 100 J/g or more.
- 79. (New) The composition of claim 75, in which the Branching Index of the branched crystalline polypropylene is 0.98 or less.
- 80. (New) The composition of claim 75, in which the Branching Index of the branched crystalline polypropylene is 0.95 or less.
- 81. (New) The composition of claim 75, in which the Branching Index of the branched crystalline polypropylene is 0.90 or less.
- 82. (New) The composition of claim 75, in which the Branching Index of the branched crystalline polypropylene is 0.80 or less.
- 83. (New) The composition of claim 75, in which the two or more metallocene catalyst compounds include a first metallocene compound and a second metallocene compound; the first metallocene compound capable of forming vinyl, vinylene, or vinylidene terminated polypropylene macromer with a weight average molecular weight of less than 150,000 Daltons; and the second metallocene compound is

capable of forming a crystalline polypropylene with a weight average molecular weight of 100,000 Daltons or more; wherein the molar amount of the second metallocene compound is greater than the molar amount of the first metallocene compound.

- 84. (New) The composition of claim 75, in which one of the metallocene compounds includes an ethylene-bridged bis-indenyl hafnocene or an ethylene-bridged bis-tetrahydroindenyl hafnocene.
- 85. (New) The composition of claim 75, in which one of the metallocene compounds is rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dichloride or rac-1,2-ethylenebis(4,7-dimethyl-indenyl)hafnium dimethyl.
- 86. (New) The composition of claim 75, in which the polymerization is carried out in a single reactor.
- 87. (New) The composition of claim 75, in which the polymerization is carried out in two or multiple reactors arranged in series.
- 88. (New) The composition of claim 75, in which the polymerization is carried out in two or multiple reactors arranged in parallel.
- 89. (New) The composition of claim 75, in which the temperature is 75°C or less.
- 90. (New) The composition of claim 75, in which the pressure is 1600 kPa to 3600 kPa.
- 91. (New) The composition of claim 75, in which catalyst productivity is at least 250,000 g polymer/g cat/hr.